

# Similarity, uncertainty, and dismissiveness

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# IEC-Reduplication

- Vietnamese has a productive reduplication strategy where the reduplicant appears to the right of the base and is segmentally identical to the base except that its last rhyme is 'iéc' [iək]

sách 'book'	→	sách xiéc
sek		sek.siék
cam 'orange'	→	cam kiéc
kam		kam.kiék
sinh viên 'student'	→	sinh viên sinh viéc
sɪŋ.viən		sɪŋ.viən.sɪŋ.viék
ca-mê-ra 'camera'	→	ca-mê-ra ca-mê-riéc
ka.me.ra		ka.me.ra ka.me.riék

## Semantic effect

- This type of reduplication suggests uncertainty on the part of the speaker

(1) A: Nam đang ăn gì đây?

Nam is eating what

(2) B: Nó đang ăn cam.

He is eating orange

C: Không đúng. Nó đang ăn quýt.

That's not true. He is eating tangerine.

(3) B: Nó đang ăn cam+kiếc gì đó

He is eating orange+RED DEM<sub>wh</sub>

C: #Không đúng. Nó đang ăn quýt.

That's not true. He is eating tangerine.

→ I will not discuss DEM<sub>wh</sub>

# The morpheme

- We assume there is a reduplication morpheme RED

(4) Phonetic consequence

- a. cam+RED → cam kiếc
- b. sinh viên+RED → sinh viên sinh viếc

(5) Semantic consequence

Nam is eating orange+RED

~~ the speaker is not certain that Nam is eating an orange

~~  $\neg K_S$  Nam is eating an orange

How is RED phonologically realized?

# Morphophonemic rule

- Let  $[_w \_ X]$  be a word whose last rhyme is X

$$[_w \_ X] + \text{RED} \rightarrow \underbrace{[_w \_ X]}_{\text{base}} + \underbrace{[_w \_ \text{ɪək}]}_{\text{reduplicant}}$$

(6) a.  $[\text{kam}] + \text{RED} \rightarrow [\text{kam}] + [\text{kɪək}]$   
b.  $[\text{sɪŋ.vɪən}] + \text{RED} \rightarrow [\text{sɪŋ.vɪən}] + [\text{sɪŋ.vɪək}]$

cf. Vu (1998), Pham and Pham (2020)

How does the “uncertainty inference” of RED come about?

# Proposal (1)

- RED weakens the meaning of the base word

(7) a.  $[\text{orange}] = \{x \mid x \text{ is an orange}\}$   
b.  $[\text{orange}+\text{RED}] = \{x \mid x \text{ is similar to an orange}\}$

(8)  $\underbrace{\text{John is eating an orange}}_p \Rightarrow \underbrace{\text{John is eating an orange+RED}}_{p \vee q \vee r \dots}$

cf. Armoskaite and Kutlu (2014), Smith (2020)

$$\phi_{\text{weaker}} \not\rightarrow \neg K_S \psi_{\text{stronger}}$$

- Utterance of  $\phi$  does not generally imply uncertainty about stronger  $\psi$

(9) John lives in Paris  $\Rightarrow$  John lives in France

A: Where does John live?

B: He lives in France.

$\not\rightarrow \neg K_S$  John lives in Paris

(10)  $x$  is a male student  $\Rightarrow$   $x$  is a student

A: Who did John talk to?

B: He talked to a student.

$\not\rightarrow \neg K_S$  John talked to a male student

$$\phi_{\text{weaker}} \rightsquigarrow \neg K_S \psi_{\text{stronger+relevant}}$$

- Utterance of  $\phi$  implies uncertainty about  $\psi$  if  $\psi$  is stronger than  $\phi$  and  $\psi$  is relevant

(11) A: Does John live in Paris?  
B: He lives in France<sub>He lives in Paris</sub>  
 $\rightsquigarrow \neg K_S$  John lives in Paris

(12) A: Did John talk to a male student?  
B: He talked to a student<sub>He talked to a male student</sub>  
 $\rightsquigarrow \neg K_S$  John talked to a male student

cf. Grice (1967)

## Proposal (2)

- N+RED makes N relevant

(13) A: What is John eating?  
B: He is eating an orange-RED He is eating an orange  
 $\rightsquigarrow \neg K_S$  John is eating an orange

cf. the literature on NPIs (Linebarger 1980, Kadmon and Landman 1993, Krifka 1995, Crnič 2019)

## But...

- Utterance of  $\phi$  can license the inference  $K_S \neg \psi$  when  $\psi$  is a stronger relevant alternative

(14) A: Does John live in Paris?

B: He lives in France

Possible inference: John lives in France but not in Paris

- This is not possible with RED

(15) A: Is Nam eating an orange?

B: He is eating an orange-RED

**Not** a possible inference: Nam is eating something similar to an orange but not an orange

# Ignorance

- The inference that RED licenses is not uncertainty but something stronger: ignorance

(16) Nam is eating an orange

Inference:  $\neg K_S$  Nam is eating an orange  $\wedge$   $\neg K_S \neg$  Nam is eating an orange

# Disjunction and ignorance

- Disjunctions license ignorance inferences

(17) A: Does John live in Paris?

B: He lives in France.

Possible inference:  $K_S \neg$  John lives in Paris

(18) A: Does John live in Paris?

B: He lives in Paris or Nice or Toulouse or Lyon or Marseille ...

**Not** a possible inference:  $K_S \neg$  John lives in Paris

- The difference between a vague term and a disjunction of specific terms is that the disjunction necessarily makes all alternatives relevant

cf. Sauerland (2004), Chemla (2008)

## Proposal (3)

- N+RED makes N relevant and at least one other alternative relevant

(19) A: What is John eating?

B: He is eating an orange-RED

≈ 'he is eating something similar to an orange'

≈ 'he is eating an orange or a tangerine or a grapefruit ...'

# Observation

- When there is no ignorance inference, RED suggests dismissiveness on the part of the speaker

(20) A: Nam làm gì?

Nam do what

B: Giáo sư+giáo xiếc gì đó

professor+RED DEM<sub>wh</sub>

~~ the speaker does not think highly of professors

How does dismissiveness come about and why is it in complementary distribution with ignorance?

(21) Gricean Fact

Utterance of  $\phi$  implies the speaker's ignorance of  $\psi$  and  $\chi$  if  $\psi$  and  $\chi$  are stronger and relevant and symmetric

(22) Consequence

Utterance of  $\phi$  implies irrelevance  $\psi$  and  $\chi$  if  $\psi$  and  $\chi$  are stronger and the speaker are not ignorant about  $\psi$  and  $\chi$

Fox (2007), Buccola and Haida (2020)

## Relevance + non-ignorance = dismissiveness

(23) A: What does Nam do?  
B: He is a professor-RED  
≈ He is a professor or a lecturer or a researcher ...  
≈ these jobs are not important enough to be of relevance to me

# Incompatibility with classifiers

- N-RED cannot combine with the classifier for N

(24) a. Nam đang mua sách- xiếc gì đó  
Nam is buying book- RED DEM<sub>wh</sub>

b. #Nam đang mua hai quyển sách- xiếc gì đó  
Nam is buying two CL book- RED DEM<sub>wh</sub>

c. Nam đang mua hai quyển sách gì đó  
Nam is buying two CL book DEM<sub>wh</sub>

# Semantics of CL

- Nouns in classifier languages are “number neutral”
- CL maps  $P$  to the set of  $P$  atoms

(25) a.  $\llbracket \text{sách} \rrbracket = \{x \mid x \text{ is a singular book or a plurality of books}\}$   
 $= \{a, b, c, \dots, a+b, a+c, b+c, a+b+c, \dots\}$

b.  $\llbracket \text{quyển sách} \rrbracket = \{x \mid x \text{ is a singular book}\}$   
 $= \{a, b, c, \dots\}$

# Selectional requirement of CL

- CL imposes requirements on the semantics of the noun it combines with

(26)  $\llbracket \text{quyển} \rrbracket = [\lambda P : P = \text{book} \ [ \lambda x. x \text{ is a singular } P ]]$

- Weakening  $P$  causes presupposition failure

(27) #quyển sách+xiếc  
CL book+RED  
because: book+RED  $\neq$  book

## More on CL

- But we know that **quyển** can combine with things similar to books

$$(28) \text{ quyển} + \left\{ \begin{array}{l} \text{sách 'book'} \\ \text{sổ 'notebook'} \\ \text{lịch 'calendar'} \\ \dots \end{array} \right.$$

- This means we should revise our semantics for CL

$$(29) \llbracket \text{quyển} \rrbracket \neq [\lambda P : P = \text{book} [\lambda x. x \text{ is a singular } P]] \\ = [\lambda P : P = \text{sim(book)} [\lambda x. x \text{ is a singular } P]]$$

## Contextual dimension of RED

- Again: why is RED incompatible with CL?

$$(30) \underbrace{[\lambda P : P = \text{sim}(\text{book}) [\lambda x. \dots]]}_{\text{quyển}} + \left\{ \begin{array}{l} \checkmark \text{sách 'book'} \\ \checkmark \text{lịch 'calendar'} \\ \dots \\ \times \text{sách-xiếc 'book-RED'} \end{array} \right.$$

- CL requires grammatical while RED guarantees pragmatic similarity

$$(31) \begin{array}{l} \text{a. } \llbracket \text{quyển} \rrbracket = [\lambda P : P = \text{sim}_g(\text{book}) [\lambda x. x \text{ is a singular } P]] \\ \quad \text{sim}_g(\text{book}) = \text{books and things considered similar to books} \\ \quad \text{by the grammar} \\ \text{b. } \llbracket \text{book-RED} \rrbracket = \text{sim}_c(\text{book}) \\ \quad \text{sim}_c(\text{book}) = \text{books and things considered similar to books} \\ \quad \text{in the context} \end{array}$$

cf. Denic (2023)

$sim_g \neq sim_c$

- Two different nouns describing the same object may differ with respect to their ability to combine with QUYỀN

(32) a. Nam đang đọc một tờ/quyển tạp chí chuyên môn  
Nam is reading a CL journal professional

b. #Nam đang đọc một tờ/#quyển báo chuyên môn  
Nam is reading a CL journal professional

(33) A: Nam đang đọc sách-xiếc gì đó  
Nam is reading book-RED DEM<sub>wh</sub>

B #Không đúng. Nó đang đọc báo/tạp chí.  
That's not true. He is reading a journal

(34) a. tạp chí  $\subseteq sim_g(book)$ , báo  $\not\subseteq sim_g(book)$

b. báo, tạp chí  $\subseteq sim_c(book)$

# Conclusion

- I have proposed an account for the intricate interpretation of IEC-reduplication using familiar ingredients of semantic analysis
  - RED introduces alternatives that are, by default, relevant
  - interpretation of an expression depends on what it means and what could have been said but was not said
  - grammar has access to the notion of “similarity”

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